

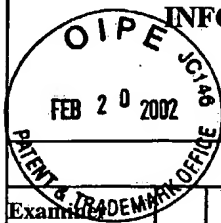
Form PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
24577-CY-  
B/JPW/SHS/PLSerial No.  
09/891,119Applicant  
Paul J. Maddon, et alFiling Date  
June 25, 2001

Group

INFORMATION DISCLOSURE CITATION  
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## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>h</i>	5 4 2 2 2 7 4	6/6/95	Maddon, et al			
	5 1 2 6 4 3 3	6/30/92	Maddon, et al			
	5 1 1 0 9 0 6	5/5/92	Maddon, et al			
	4 5 2 0 1 1 3	5/28/95	Gallo, et al			
	4 6 2 9 7 8 3	12/16/86	Cosand			
	4 6 6 3 4 3 6	5/5/87	Elder, et al			
	4 6 2 1 0 5 4	11/4/86	Suzuki, et al			

## FOREIGN PATENT DOCUMENTS

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No
8 8 0 1 3 0 4	2/25/98	PCT				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Blue, M., et al., (1985), Coexpression of T4 and T8 on peripheral blood T cells demonstrated by two-color fluorescence flow cytometry, <i>J. of Immunology</i> , 134:2281-2286;
	Daldleisch, A.G., et al., (1984), The CD4 (T4) antigen is an essential component of the receptor for the AIDS retrovirus, <i>Nature</i> , 312:763-767;
	Isobe, M., et al., (1986), The gene encoding the T-cell surface protein T4 is located on the human chromosome 12, <i>Proc. Natl. Acad. Sci. USA</i> , 83:4399-4402;
<i>h</i>	Klatzmann, D., et al., (1984), T-lymphocyte T4 molecule behaves as the receptor for human retroviruses LAV, <i>Nature</i> , 312:767-768;

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Applicant: Paul J. Maddon et al  
U.S. Serial No.: 09/891,119  
Filed: June 25, 2001  
Exhibit 1



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							Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

	Lasky, L.A., (1987), Delineation of a region of the human immunodeficiency virus type 1 gp120 glycoprotein critical for interaction with the CD4 receptor, <u>Cell</u> , 50:975-985;
	Littman, D.R., et al., (1985), The isolation and structure of the genes encoding the human T cell molecules T4 and T8, <u>Chemical Abstracts</u> , 103:175, Column 1, abstract no. 190738;
	Littman, D.R., et al., The Isolation and structure of the genes encoding the human T cell molecules T4 and T8, (1985) <u>ICSU Short Rep. Vol. 2. (Adv. Gene Tech.)</u> , pp. 233-234;
	Maddon, P.J., et al., (1985), The isolation and nucleotide sequence of a cDNA encoding the T cell surface protein T4: A new member of the immunoglobulin gene family, <u>Cell</u> , 42:93-104;
	Maddon, P.J., et al. (1986), The T4 gene encodes the AIDS virus receptor and is expressed in the immune system and the brain, <u>Cell</u> , 47: 333-348;

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	McDougal, J.S., et al., (1986), Binding the human retrovirus HTLV-III/LAV/ARV/HIV to the CD4 (T4) molecule: conformation dependence, epitome mapping, antibody inhibition, and potential for idiotypic mimicry, <u>J. of Immunology</u> , pp. 2937-2944;
	McDougal, J.S., et al., (1986), Binding of HTLV-III/LAV to T4+ cells by a complex of the 110k viral protein and the T4 molecule, <u>Science</u> , 231:382-385;
	Ratner, L., et al., (1985), Complete Nucleotide Sequence of the AIDS virus, HTLV-III, <u>Nature</u> , 313:277-284;
	Terhorst, C.m, et al., (1980), Biochemical analysis of Human T-lymphocyte differentiation antigens T4 and T5, <u>Science</u> , 209:520-521;
	Wong-Staal, F., et al., (1984), Human T-lymphotropic retroviruses, <u>Nature</u> , 317:395-403;
	Fisher, R.A., (1988), HIV infection is blocked in vitro by recombinant soluble CD4, <u>Nature</u> , 331:76-78; (Exhibit 5)
	Hussey, et al., (1988), A soluble CD4 protein selectively inhibits HIV replication and syncytium formation, <u>Nature</u> , 331: 78-81; (Exhibit 6)
	Traunecker, A., (1988), Soluble CD4 molecules neutralize human immunodeficiency virus type 1, <u>Nature</u> , 331: 84-86; (Exhibit 7)
	Deen, et al., (1988), A soluble form of CD4 (T4) protein inhibits AIDS virus infection, <u>Nature</u> , 331: 82-84; (Exhibit 8)
	Capon, D.J., (1989), Designing CD4 immunoadhesins for AIDS therapy, <u>Nature</u> , 337: 525-531; and (Exhibit 9)
	Dalglish, A.G., et al, (1987), Neutralisation of HIV Isolates by Anti-Idiotypic Antibodies which Mimic the T4 (CD4) Epitope: A Potential AIDS Vaccine, <u>Lancet</u> , <u>2(8567)</u> : 1047-1050 (Exhibit 10).

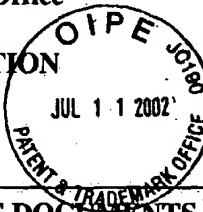
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U.S. PATENT DOCUMENTS									
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate		
hp		4 7 6 1 3 7 1	8/2/88	Bell, et al					
		4 8 1 6 5 6 7	3/28/89	Cabilly, et al					
		5 1 0 9 1 2 3	4/28/92	Reinherz, et al					
FOREIGN PATENT DOCUMENTS									
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		8 9 0 1 9 4 0	3/9/89	PCT			Yes	No	
		8 9 0 8 1 4 3	8/9/89	PCT					
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)									
		Barr, P.J. et al., (1989), Yeast Genetic Engineering, Chapter 10 Heterologous Gene Expression in Yeast (Exhibit 6)							
		Carr, S.A., et al., (1989), "Protein and Carbohydrate Structural Analysis of a Recombinant Soluble CD4 Receptor by Mass Spectrometry", J. Biol. Chem. 264:21286-21295 (Exhibit 7)							
		Cohen, J. (1993), "Jitters Jeopardize AIDS Vaccine Trials", Science, Vol. 262, pp 980-1 (Exhibit 8)							
		Fox, J. L. (1994), "No winners against AIDS", Bio/Technology, Vol. 12, February 1994 (Exhibit 9)							
		Haynes, B.F. (1993), "Scientific and Social Issues of Human Immunodeficiency Virus Vaccine Development", Science, Vol. 260, pp 1279-1286 (Exhibit 10)							
		Husson, R. N., et al., (1992), "Phase 1 study of continuous-infusion soluble CD4 as a single agent and in combination with oral dideoxyinosine therapy in children with symptomatic human immunodeficiency virus infection", The Journal of Pediatrics, Vol. 121, No. 4, October, 1992, pp 627-33 (Exhibit 11)							
		Littman, D. R., et al., (1985), "The Isolation and Sequence of the Gene Encoding T8: A Molecule Defining Functional Classes of T Lymphocytes", Cell, Vol. 40, pp 237-246 (Exhibit 12)							
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
hsp		Mitsuya, H., et al., (1990), "Molecular Targets for AIDS Therapy", Science, Vol. 249, pp 1533-1543 (Exhibit 13) X			
		Murre, C., et al., (1986), "Biochemical and Functional Analysis of a Secreted H-2L <sup>d</sup> Molecule", Molecular and Cell Biology, Vol. 6, No. 4, pp 1315-19 (Exhibit 14) X			
		Possee, R. D., (1986) "Cell-surface expression of influenza virus haemagglutinin in insect cells using a baculovirus vector", Virus Research, 5, pp 43-59 (Exhibit 15) X			
		Rose, J. K., et al., (1982) "Expression from Cloned cDNA of Cell-Surface Secreted Forms of the Glycoprotein of Vesicular Stomatitis Virus in Eucaryotic Cells" Cell, Vol. 30, pp 753-62 (Exhibit 16) X			
		Sandstrom, E. G., et al., (1987), "Antiviral Therapy in AIDS, Clinical Pharmacological Properties and Therapeutic Experience to Date" Drugs 34: 372-390 (Exhibit 17) X			
		Springer, T. A., et al., (1976), "The Detergent-soluble HLA Antigens contain a hydrophilic region at the COOH-terminus and a penultimate hydrophobic region", Proc. Natl. Acad. Sci. USA, Vol 73, No. 7, pp 2481-2485 (Exhibit 18) X			
		Wills, J. W., et al., (1984), "Mutations of the Rous Sarcoma Virus <i>env</i> Gene That Affect the Transport and Subcellular Location of the Glycoprotein Products", The Journal of Cell Biology, Vol. 99, pp 2011-2023 (Exhibit 19) X			
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